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CR3

CRYSTAL LOUDSPEAKERS

CR-30.1
CR-30.2
CR-30.3
CR-30.4
CR-30.5
CR-30 C

Wharfedale

BRITAIN'S MOST FAMOUS LOUDSPEAKERS

User Manual

IMPORTANT SAFETY INFORMATION

Before installing this product read all these instructions!

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions.

Before making any connections, switch all the units in your system off at the mains.

Set the volume control at minimum when you switch on your system or change sources, and turn the level up gradually.

DO NOT use your amplifier at full volume.

Ensure that all loudspeakers in the system are correctly wired.

DO NOT subject your loudspeakers to excessive cold, heat, humidity or sunlight.

Loudspeakers should not be placed directly facing other hi-fi units, or share the same shelf or cabinet.

DO NOT place heavy objects on top of loudspeakers.

Some manufacturers forbid the placing of objects on top of their TV sets. Check your TV handbook before installing the speaker directly on your TV set. Consult your TV dealer if you are in any doubt.

DO NOT connect speaker terminals to the mains supply.

DO NOT dismantle the loudspeaker. There are no user serviceable parts inside it and you will void the warranty.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Caution: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this device.

UNPACKING

After taking out the top packing piece, lift the loudspeaker/s from the carton. Do NOT lift a loudspeaker out using the protective bag. After unpacking remove all the protective bags from the loudspeakers and store or dispose of them safely.

The CR-30.4 and CR-30.5 are heavy. If you are unsure of your ability to unpack and manoeuvre them safely, get someone to help you.

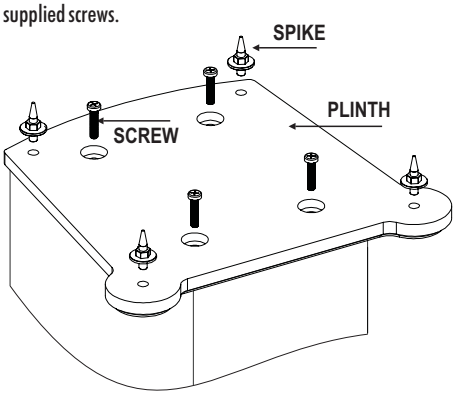
Check all items after unpacking. If any item is missing or damaged, immediately contact your Wharfedale dealer. Retain the packaging. If you dispose of the packing, follow all recycling regulations in your area.

PREPARING THE CR-30.4 & CR-30.5 LOUDSPEAKERS

ATTACHING THE PLINTH AND SPIKES

Place a soft cloth on the floor to protect the speaker. Invert the loudspeaker and place it on the cloth.

Attach the plinth firmly to the loudspeaker using the four supplied screws.



Thread a locking nut two-thirds of the way up the spike.Thread each spike assembly into a spike mount.. Tighten finger tight so that the spike is secure but not locked in place.

LEVELLING THE LOUDSPEAKER

Invert the loudspeaker and place it carefully on the floor. If the floor is not perfectly level you will find that one spike is off the ground. Starting with this spike, unscrew it so that it touches the floor. Move the other spikes in and out so until the speaker is level front and back and sideways. Now tighten the nuts to lock the spikes firmly in position

SPIKE SEATS: A set of spike seats is provided for sensitive floors. Place a seat under each spike before you level the speakers.

CAUTION: SPIKES ARE SHARP.

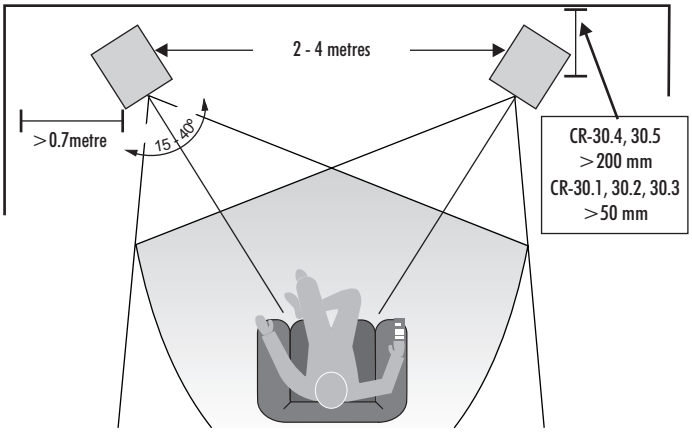
Make sure that there are no wires or hidden obstacles that could be damaged by the spikes in the immediate operational area of the speakers. NEVER drag a loudspeaker on its spikes. Always lift it. If the item is heavy get assistance.

POSITIONING STEREO LOUDSPEAKERS

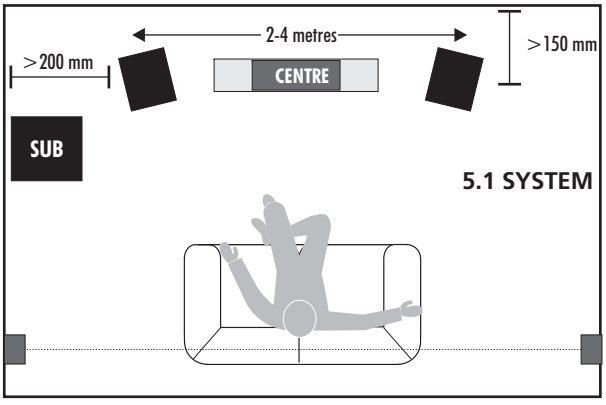
The CR-30.4 and 30.5 are floor standing. We suggest they are positioned at least 200 mm from the rear walls and 700 mm from the side walls, facing slightly inwards. The CR-30.1, 30.2 and 30.3 may be stand or wall mounted or placed on a rigid shelf.

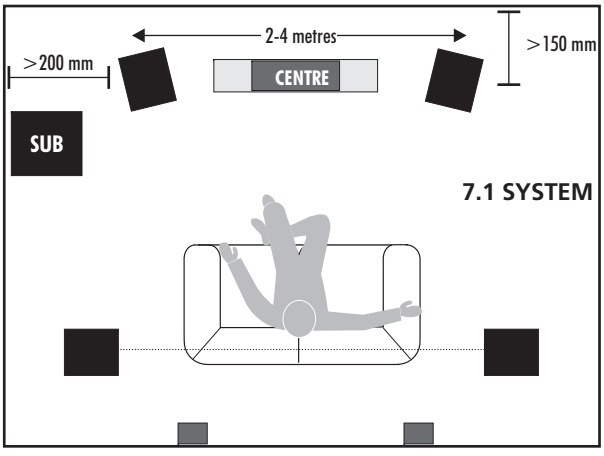
The bass extension will improve if smaller speakers are operated closer to the rear walls. If the loudspeakers are placed too close to the walls the bass will increase but may be boomy and indistinct. If the loudspeakers are placed away from the walls, the inward angle may be increased by up to 40%, but this may restrict the width of the optimum listening position.

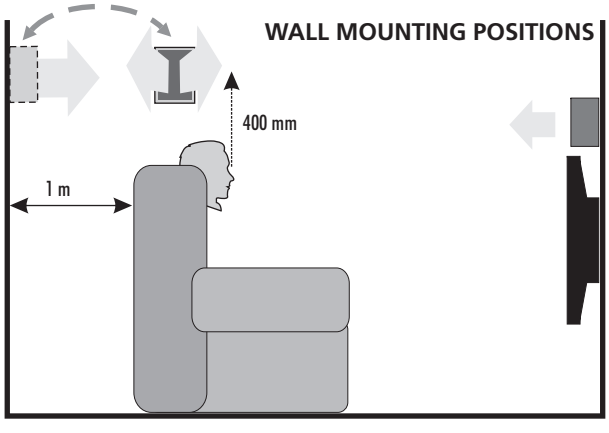
A rule of thumb is that the listener should be as far from the loudspeakers as they are from each other. The speakers should ideally be positioned so that the treble units are roughly at ear level to a seated listener. As personal taste plays a large role, experiment with different configurations and play a wide range of programmes before finalising the position of your speakers.



POSITIONING HOME CINEMA LOUDSPEAKERS







5.1 POSITIONING

Place the front speakers as shown. Front loudspeakers should be placed away from walls for best results. Angling the speakers inward slightly will improve stereo images but too extreme an angle will impair movie sound.

All the speakers with the exception of the CR-30C must be placed at least 450mm from a CRT TV. Flat panels are unaffected.

The CR-30C centre speaker can be placed above or below the TV screen.

Subwoofer room positioning is not critical but we recommend that it is placed in front of the listening seat. Never operate the subwoofer within 450mm of a conventional TV screen.

The surround speakers should be placed above and behind the listening seat. They may be mounted on the side walls or on the rear walls but always behind the listener. Do not operate them within 450mm of a conventional CRT TV.

If the distance between the side walls is too great, you could use a second pair of stand mounted or floorstanding loudspeakers as the surround loudspeakers, placed as shown in the drawing opposite.

7.1 POSITIONING

If you are using a 7.1 system, the back loudspeakers must be at least 1 metre behind the listening seat.

WALL MOUNTING POSITIONS

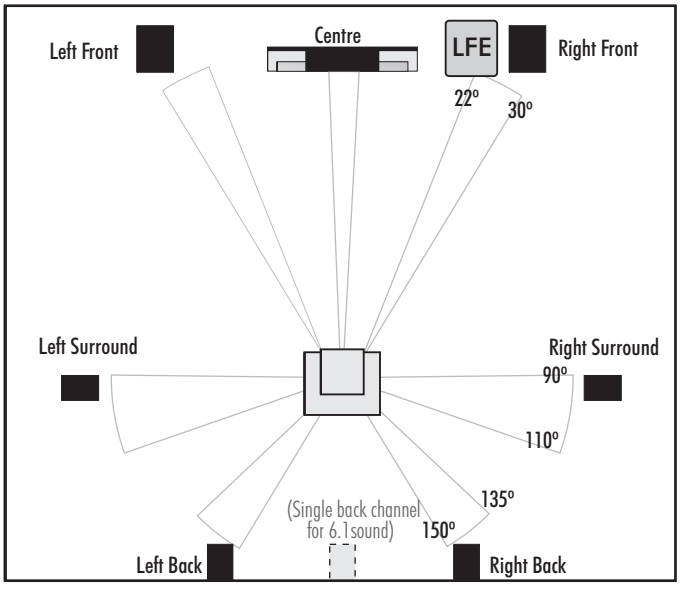
If you are wall mounting the centre and effects loudspeakers we recommend that they be mounted as shown.

The CR30.1 has integral speaker mounts.

To wall mount the CR30C we recommend that you consult your dealer to advise you on a suitable wall bracket.

Wall mounting the centre loudspeaker below the screen is not recommended unless the screen is mounted significantly above eye level. Consult your TV user guide for preferred placement options.

DOLBY LABS RECOMMENDED 7.1 PLACEMENT



WALL MOUNTING THE CR-30.1 LOUDSPEAKERS

The crossover terminal panel of the CR-30.1 loudspeaker is provided with an integral keyhole slot for wall mounting.

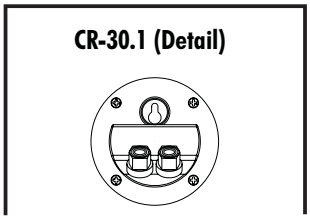
Wall mounting should be carried out by licensed sound contractors or technicians with appropriate qualifications and experience. All installation and wiring should comply with the standards laid down by the competent authority in the country and place of installation.

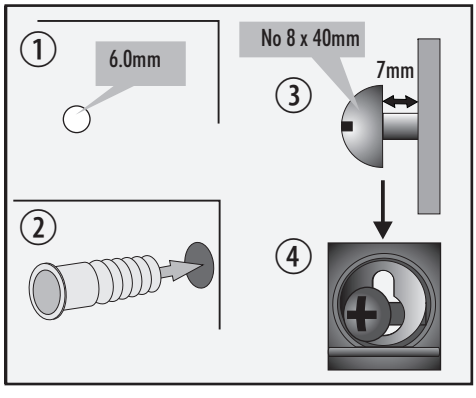
Before you attempt wall or ceiling mounting, ensure the surface is stable and strong enough to support the weight of the speaker and mounting hardware.

You will need 1 No.8 screw and matching wall plug to attach each loudspeaker to the wall. These are the responsibility of the installer who should supply suitable fixings for this purpose.

Drill one 6mm hole in the wall at a suitable height off the floor. Fix a suitable No 8 round head screw firmly into each hole using appropriate wall plugs. Leave a stub of 7mm protruding from the wall. Align the keyhole slot in the crossover panel over the screw head and carefully lower the unit onto the screw.

Remove the loudspeakers from the wall ready for connection. After connection they can be re-installed on the wall.



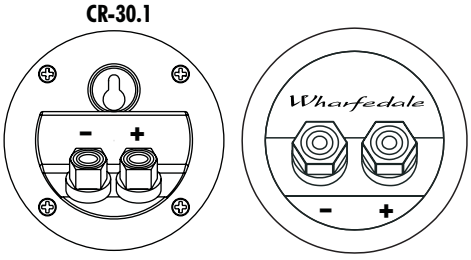


CONNECTING YOUR LOUDSPEAKERS - 1

TERMINAL PANELS

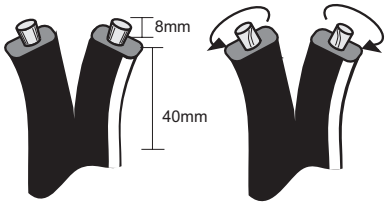
All the loudspeakers connect to the amplifier via a twin terminal connecting panel. The CR30.1 has a keyhole mount integrated into the crossover panel.

The positive (+) terminal is located at the right of the panel and is coded Red. The Negative (–) terminal is coded Black.



CABLE PREPARATION

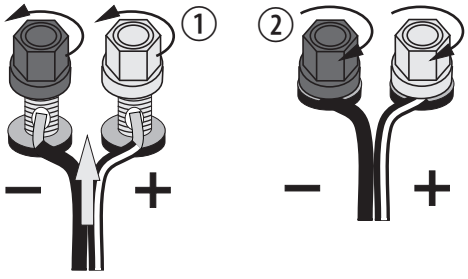
Prepare a length of loudspeaker cable for each speaker. Split the cores to a depth of about 40mm. Carefully strip the insulation from each end, leaving about 8mm of bare wire. If the cable is stranded, lightly twist to gather any loose strands.



Audio cable is polarised, with two cores of different colours, or often a coloured tracer or identification rib. We suggest that you connect the coloured/striped wire to the RED, Positive terminals of your amplifier. This will ensure that all the loudspeakers are connected the correct way round and avoid set-up problems.

CONNECTING A SPEAKER TERMINAL

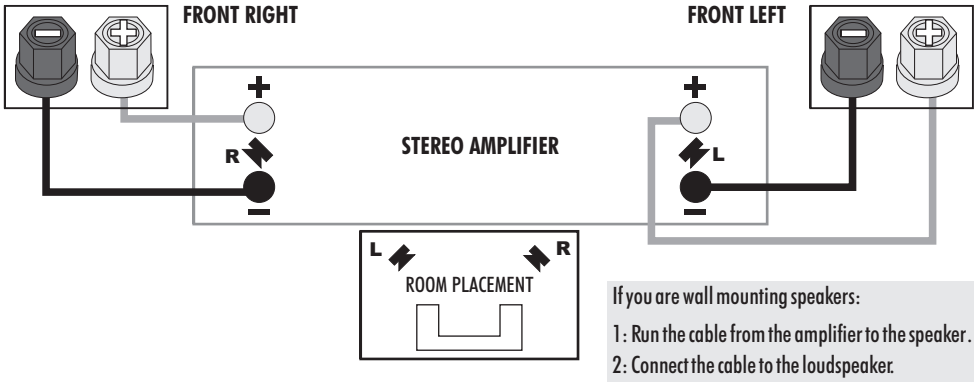
Unscrew a terminal. Thread the bared end of each cable through the hole in the bottom of the terminal post. Ensure that there are no loose strands which may touch adjacent terminals. Retighten the terminal securely.



CONNECTING YOUR LOUDSPEAKERS - 2

STEREO CONNECTIONS

Connect each loudspeaker to the correct channel of your amplifier or processor taking care to connect the Red, Positive (+) terminal of the speaker to the Red, Positive (+) terminal of the speaker output terminal of the amplifier, and similarly with the Black, Negative (–) terminal.

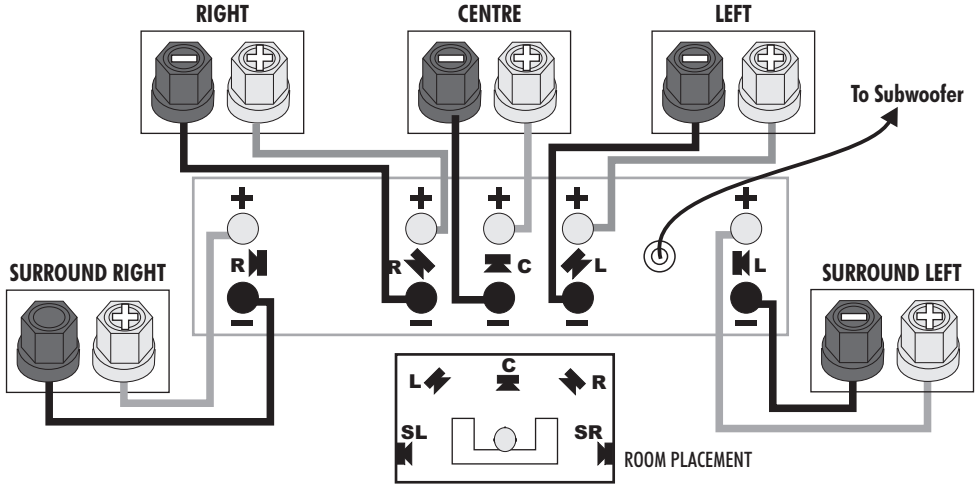


If you are wall mounting speakers:

1: Run the cable from the amplifier to the speaker.
2: Connect the cable to the loudspeaker.
3: Hang the loudspeaker on the wall.
4: Connect the loudspeaker cable to the amplifier.

5.1 CHANNEL CONNECTIONS

The Wharfedale range features several subwoofers to complement your Crystal loudspeakers. Your Wharfedale dealer will be pleased to advise you on a suitable choice.



SETTING UP A STEREO SYSTEM

Ensure that the listening seat is central to the loudspeakers.

Play some music with which you are familiar. Adjust the speakers for the optimum performance. You will find that a few degrees more or less "toe in" can affect the sound dramatically.

The sound should be well balanced with a firm bass. If the sound lacks definition or the bass is indistinct, the speakers could be incorrectly wired (out of phase). In this case check the wiring to the loudspeakers.

SETTING UP AN AV SYSTEM

Please read the relevant sections of your AV amplifier manual and familiarise yourself with the various issues. If you are unsure, consult your dealer for help.

Most digital AV processors require you to specify the size of speakers in all operational channels. These are usually 'Large' or 'Small'. Set all the bookshelf speakers to "Small". This will direct all the bass in the system to the subwoofer for clean, deep and louder bass. The floorstanding loudspeakers should be set to "Large". It is normal for centre and effects speakers to be set to "Small". Set the 'Subwoofer' option on the processor to "on". If there is no subwoofer in the system set all the speakers to "Large" and set the subwoofer to "Off"

When the loudspeaker settings are finalised, put the AV amplifier into its "Test" mode (see your processor instructions), Adjust the levels until all channels are equally loud.

TROUBLESHOOTING *Before investigating a problem, switch off the system at the mains.*

IF YOUR LOUDSPEAKERS ARE NOT WORKING SATISFACTORILY, PLEASE WORK THROUGH THE TABLE BELOW BEFORE CONTACTING YOUR DEALER FOR ASSISTANCE.

Symptom	Possible Cause
No Sound	System not switched on; Speaker cables shorting terminals out; Wrong source selected
Sound lacks bass content Bass reproduction indistinct	Front loudspeakers out of phase. Check all system connections and rectify. Subwoofer not switched on; Subwoofer phase incorrect; Subwoofer crossover control too low
Excessive bass distortion at low volumes	Subwoofer level set too high; LFE level set too high; Subwoofer incorrectly wired
Excessive or distorted bass at high levels	System level set too high; Bass control set too high;
Distortion / rattling at high levels	System level too high; Objects too close or on top of speakers/subwoofer.
Indistinct sound; Poor localisation of effects. Poor localisation of dialogue	One or more loudspeakers is out of phase. Check all system connections and rectify. (Read the manual for correct connection procedure)

FURTHER INFORMATION

CARE AND MAINTENANCE

If you play the speakers with the grilles off exercise great care. NEVER touch drive units which are easily damaged.

The loudspeaker cabinets can be cleaned with a damp cloth or with a spray furniture polish and a soft cloth. Apply the spray sparingly to the cloth and then polish the cabinet. Never apply spray directly to the cabinet.

GUARANTEE & SERVICE

In the unlikely event that your unit develops a fault you should return it to your Wharfedale dealer using the original packing to ensure safe shipping.

The terms of your guarantee may vary in different countries but in all cases the guarantee excludes:

All damage caused through accident, misuse, wear and tear, neglect, incorrect installation, adjustment or repair by unauthorised personnel. Liability for damage or loss occurring in transit to or from the purchaser.

Wharfedale will not be liable for any consequential damage, loss or injury, arising from or in conjunction with this equipment.

AUTHORISED SERVICE CENTRES

UK

International Audio Group, Unit 4, St Margaret's Way, Stukeley Meadows Industrial Estate Huntingdon, Cambs, PE29 6EB
Tel: +44 (0)1480 447700 Fax: +44 (0)1480 431767

ASIA

IAG Sales and Service Centre, Jiuwei Village,
Xixiang Town, Shenzhen, China 518102
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For information on other authorised service centres worldwide contact Wharfedale International in the U.K.

A worldwide distributor list is available on the Wharfedale website: **www.wharfedale.co.uk**

Wharfedale has a policy of continuous product development and reserves the right to change specification without notice.

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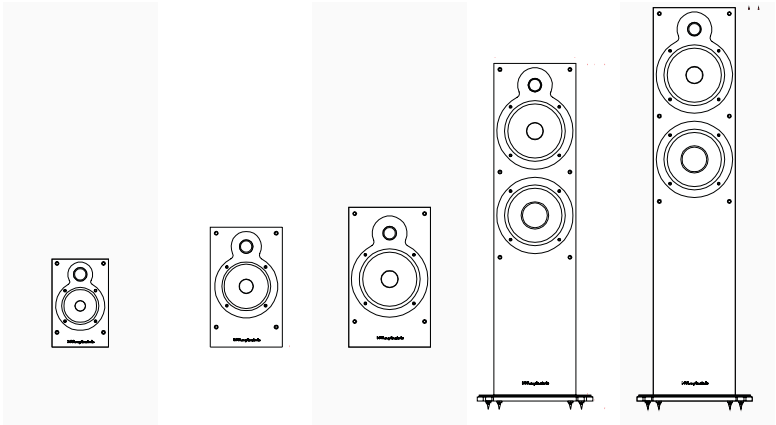
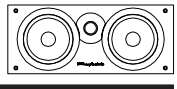
SPECIFICATIONS



Front Speakers	CR-30.1	CR-30.2	CR-30.3	CR-30.4	CR-30.5
Format	Bookshelf/Wall	Bookshelf/Stand	Bookshelf/Stand	FloorStanding	FloorStanding
Bass Unit	100mm	170mm	170mm	170mm	170mm
Bass/Midrange unit				170mm(Rad)	170mm
Tweeter	25mm	25mm	25mm	25mm	25mm
Rec. Amplifier Power	25-100W	25-125W	25-150W	25-150W	25-200W
Nominal Impedance	6Ohms	6Ohms	6Ohms	6Ohms	6Ohms
A/V shielding	No	No	No	No	No
Sensitivity (1W @ 1M)	85dB	86dB	88dB	87dB	88dB
Freq. Response (-6dB)	75Hz-24kHz	60Hz-24kHz	50Hz-24kHz	45Hz-24kHz	40Hz-24kHz
Size (H x W x D) mm	220x141x147	300x180x212	350x205x240	830x205x240	970x205x240
Height on Plinth mm				868	1008



Effects Speakers	CR-30C
Format	Centre
Bass/Midrange unit	2x130mm
Tweeter	25mm
Rec. Amplifier Power	25-125W
Nominal Impedance	6Ohms
A/V shielding	Yes
Sensitivity (1W @ 1M)	86dB
Freq. Response (-6dB)	70Hz-24kHz
Size (H x W x D) mm	172x415x172

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist.

Check with your Local Authority or retailer for recycling advice.

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